

Application No. 10/036,469

REMARKS

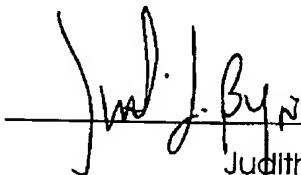
Claims 10 to 13, 16 to 27, 30, 31, 33, 38 to 41, 44, 45, and 47 to 71 are pending in the application. The Examiner has subjected the claims to a restriction requirement and claims 10 to 13, 17 to 27, 30, 31, 38 to 41, and 47 to 56 have been withdrawn from consideration.

The Examiner has stated that Applicants' previous amendment to claim 16 changing the "composition" to a "polymer" in effect cancelled all claims to the elected invention and presented only claims drawn to a nonelected invention. While Applicants disagree with this position, Applicants have amended claim 16 so that it reads as originally filed and have amended the new claims presented in the previous amendment to be consistent with this amendment to claim 16. Applicants believe that these amendments eliminate any possible basis for objection.

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In the event the Examiner considers personal contact advantageous to the disposition of this case, she is hereby authorized to call Applicant(s) attorney, Judith L. Byorick, at Telephone Number (585) 423-4564, Rochester, New York.

Respectfully submitted,



Judith L. Byorick
Attorney for Applicant(s)
Registration No. 32,606
(585) 423-4564

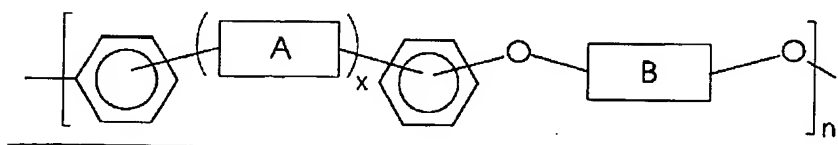
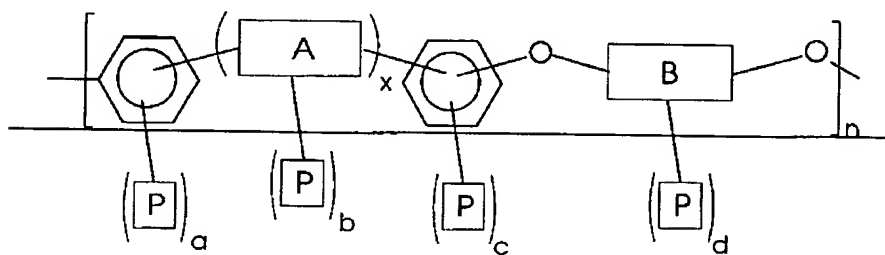
JLB/cw
April 17, 2003
Xerox Corporation
Xerox Square 20A
Rochester, New York 14644

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VERSION WITH MARKINGS TO SHOW CHANGES MADE:

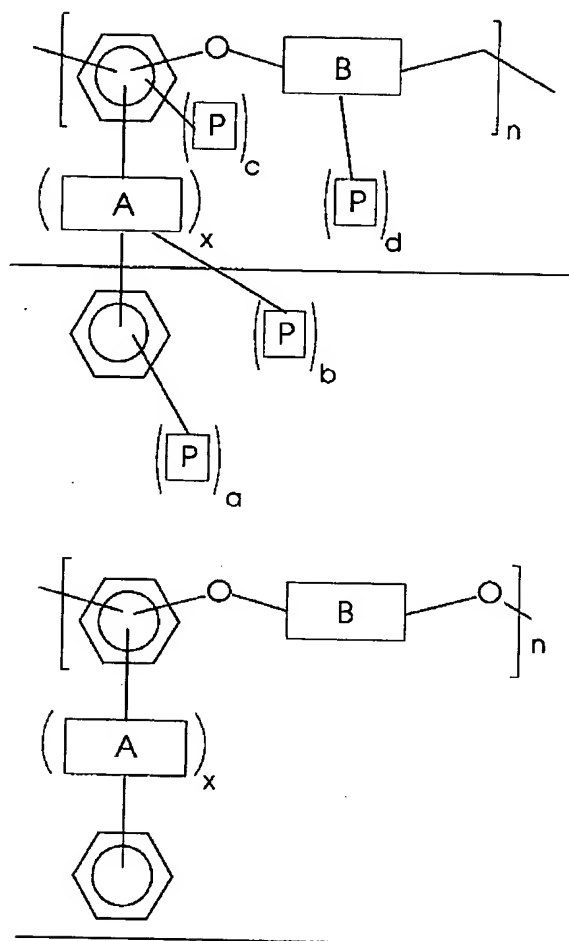
IN THE CLAIMS:

16. (Twice Amended) A composition which comprises
a crosslinked or chain extended polymer ~~formed by crosslinking or chain~~
~~extending a precursor polymer of the formula~~

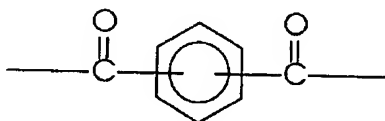


or

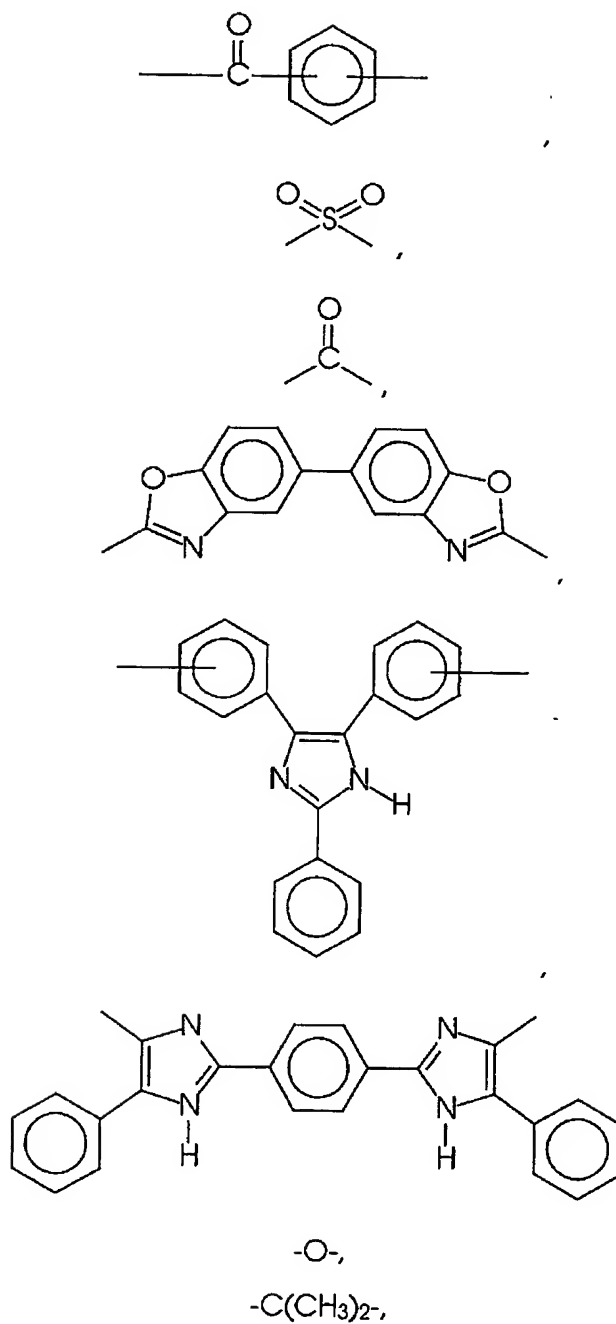
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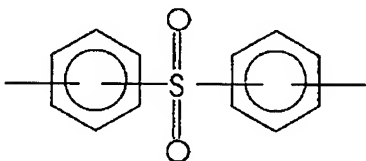
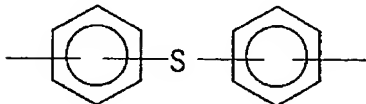
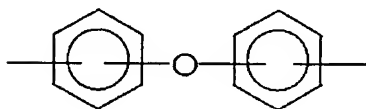
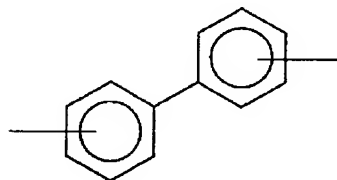
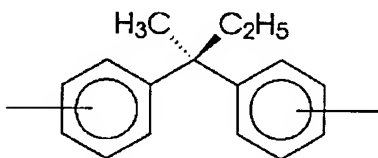
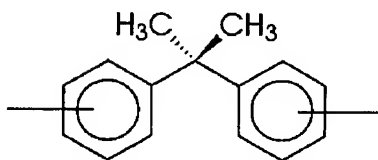
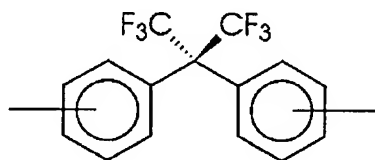
wherein x is an integer of 0 or 1, P is a functional group which imparts photosensitivity to the precursor polymer, a, b, c, and d are each integers of 0, 1, 2, 3, or 4, provided that at least one of a, b, c, and d is equal to or greater than 1 in at least some of the monomer repeat units of the precursor polymer, A is



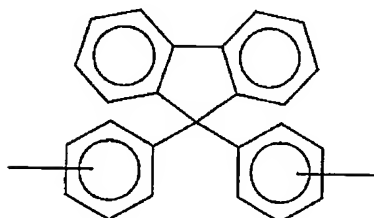
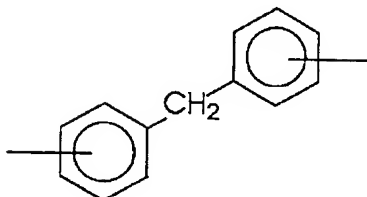
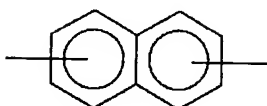
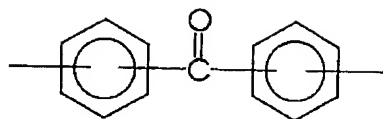
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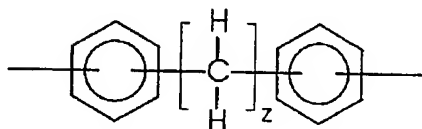
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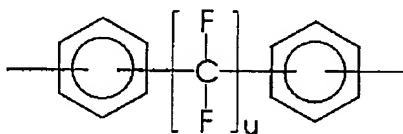


wherein v is an integer of from 1 to about 20,

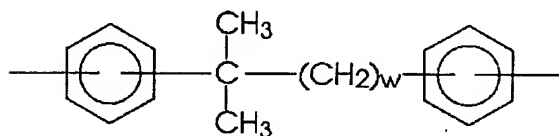
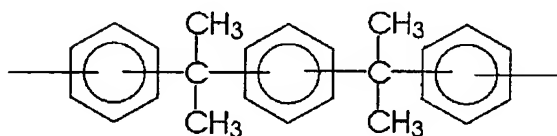
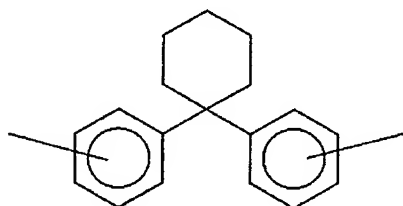
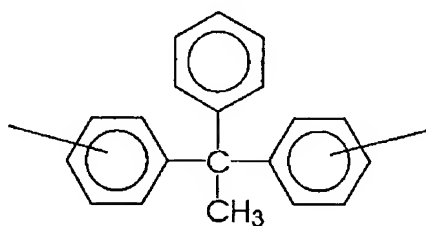


wherein z is an integer of from 2 to about 20,

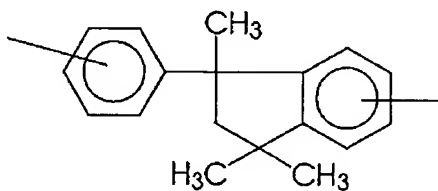
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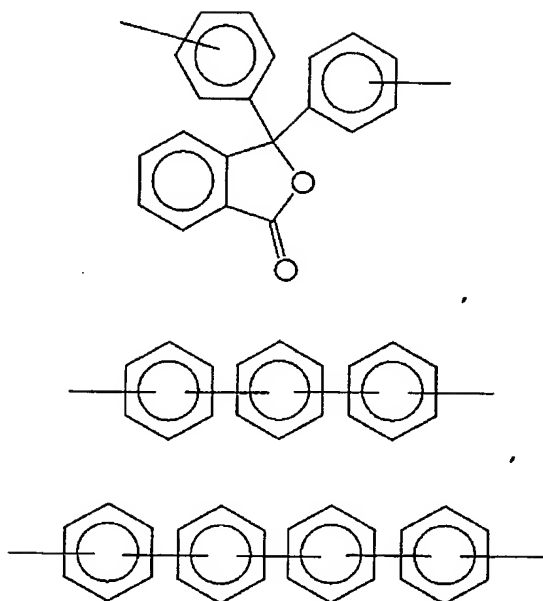
wherein u is an integer of from 1 to about 20,



wherein w is an integer of from 1 to about 20,



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or mixtures thereof, and n is an integer representing the number of repeating monomer units, said crosslinking or chain extension occurring through linking groups formed by a reaction between epoxy groups contained on at least some of the monomer repeat units of the precursor polymer and an amine curing agent, ~~wherein the photosensitivity-imparting substituents "P" are allyl ether groups, epoxy groups, or mixtures thereof.~~

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57. (Amended) A polymer composition according to claim 16 wherein the value of n is such that the weight average molecular weight of the ~~precursor~~-polymer prior to crosslinking or chain extension is from about 1,000 to about 100,000.

58. (Amended) A polymer composition according to claim 16 wherein the value of n is such that the weight average molecular weight of the ~~precursor~~-polymer prior to crosslinking or chain extension is from about 1,000 to about 65,000.

59. (Amended) A polymer composition according to claim 16 wherein the value of n is such that the weight average molecular weight of the ~~precursor~~-polymer prior to crosslinking or chain extension is from about 1,000 to about 40,000.

60. (Amended) A polymer composition according to claim 16 wherein the value of n is such that the weight average molecular weight of the ~~precursor~~-polymer prior to crosslinking or chain extension is from about 3,000 to about 25,000.

61. (Amended) A polymer composition according to claim 16 wherein n is an integer of from about 2 to about 70.

62. (Amended) A polymer composition according to claim 16 wherein n is an integer of from about 5 to about 70.

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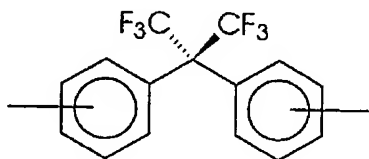
63. (Amended) A polymer composition according to claim 16 wherein n is an integer of from about 8 to about 50.

64. (Amended) A polymer composition according to claim 16 wherein the ~~precursor~~-polymer has a degree of substitution of on average from about 0.5 to about 2 photosensitivity-imparting groups per monomer repeat unit.

65. (Amended) A polymer composition according to claim 16 wherein the ~~precursor~~-polymer has a degree of substitution of on average from about 0.5 to about 1.5 photosensitivity-imparting groups per monomer repeat unit.

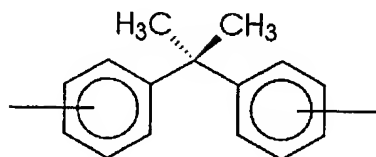
66. (Amended) A polymer composition according to claim 16 wherein the ~~precursor~~-polymer has a degree of substitution of from about 0.8 to about 1.3 milliequivalents of allyl ether or epoxy groups per gram of precursor polymer.

67. (Amended) A polymer composition according to claim 33 wherein B is

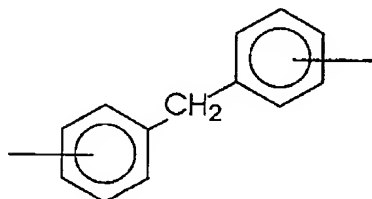


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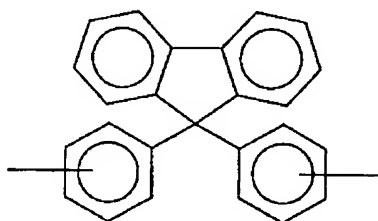
68. (Amended) A ~~polymer composition~~ according to claim 33 wherein B is



69. (Amended) A ~~polymer composition~~ according to claim 33 wherein B is

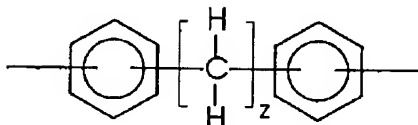


70. (Amended) A ~~polymer composition~~ according to claim 33 wherein B is



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71. (Amended) A polymer composition according to claim 33 wherein B is



wherein z is an integer of from 2 to about 20.